

Appl. No. 09/773,245
Amdt. Dated September 24, 2004
Reply to Office action of July 1, 2004
Attorney Docket No. P11147-US1
EUS/J/P/04-3242

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 -23. (Canceled)

24. (New) A method for transferring user data information between a circuit switched network and a packet switched network, wherein the circuit switched network is coupled with the packet switched network by an interface that includes a media gateway, the method comprising the steps of:

- transferring the user data information between the networks via the interface;
- processing the user data information into frames, each frame comprising a header;
- checking the header of each frame for a frame type identifier and a receive sequence number;
- detecting the frame type identifier in a current frame;
- determining whether the receive sequence number of the current frame is equal to a receive sequence number of a previous frame having the same frame type identifier; and
- if so, discarding the current frame to decrease the data rate.

25. (New) The method of claim 24, wherein if the frame type identifier identifies an empty frame,

- discarding the empty frame automatically without determining the receive sequence number of the empty frame.

26. (New) The method of claim 24, further comprising the step of:

- checking frame headers received from the circuit switched network and ignoring frame headers received from the packet switched network.

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27. (New) The method of claim 24, further comprising the step of:
checking frame headers received from the packet switched network and ignoring
frame headers received from the circuit switched network.

28. (New) The method of claim 24, further comprising the step of utilizing a
second means for discarding frames to discard frames received from the packet
switched network.

29. (New) The method of claim 24, further comprising the step of discarding
the current frame received from the circuit switched network and ignoring a current
frame received from the packet switched network.

30. (New) A system for transferring user data information between a circuit
switched network and a packet switched network, wherein the circuit switched network
is coupled with the packet switched network by an interface that includes a media
gateway, the system comprising:

- a base transceiver station for transmitting and receiving user data information
from and to a terminal connected to the circuit switched network;

- means for transferring the user data information between the networks via the
interface;

- means for processing the user data information into frames, each frame
comprising a header;

- means for checking the header of each frame for a frame type identifier and a
receive sequence number

- means for detecting the frame type identifier in a current frame;

- means for determining whether the receive sequence number of the current
frame is equal to a receive sequence number of a previous frame having the same
frame type identifier; and

- means for discarding the current frame if the frame type identifier and the receive
sequence number are the same.

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31. (New) The system of claim 30, wherein the base station is coupled directly to the interface and the base station comprises the means for, responsive to receiving frames from the circuit switched network,

detecting the frame type identifier in a current frame,

determining whether the receive sequence number of the current frame is equal to a receive sequence number of a previous frame having the same frame type identifier, and if so

discarding the current frame.

32. (New) The system of claim 30, wherein if the frame type identifier identifies an empty frame, the empty frame is automatically discarded without determining the receive sequence number of the empty frame.

33. (New) The system of claim 30, wherein the interface is coupled directly to the base transceiver station, and wherein the base transceiver station comprises

means for examining frames received from the circuit switched network into frames and ignoring frames received from the packet switched network.

34. (New) The system of claim 30, wherein the media gateway unit comprises a second means for examining frames received from the packet switched network and ignoring frames received from the circuit switched network.

35. (New) The system of claim 30, wherein the media gateway unit comprises a second means for discarding frames, wherein the second means for discarding frames is resident in the media gateway and processes frames received from the packet switched network and ignores frames received from the circuit switched network.

36. (New) The system of claim 33, wherein the means for discarding the current frame, resident in the base station, discards frames received from the circuit switched network and ignores frames received from the packet switched network.

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37. (Original) A communication unit for transferring user data information, comprising:

means for processing the user data information into frames, each frame comprising a header;

means for checking the header of each frame for a frame type identifier and a receive sequence number;

means for detecting the frame type identifier in a current frame;

means for determining whether the receive sequence number of the current frame is equal to a receive sequence number of a previous frame with the same frame type identifier; and if so,

means for discarding the current frame to decrease the data rate.

38. (New) The communication unit of claim 37, wherein the frame type identifier identifies an empty frame and means for discarding the current frame automatically discards the empty frame without checking the receive sequence number.

39. (New) The communication unit of claim 37, wherein the means for detecting the frame type identifier, the means for determining the receive sequence number and the means for discarding the current frame ignores frames from a connected packet switched network.

40. (New) The communication unit of claim 37, wherein the transfer of user data information includes HSCSD (High Speed Circuit Switched Data) bearer services.

41. (New) The communication unit of claim 37 wherein the communication unit is a base transceiver station.